

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-31 (canceled)

Claim 32 (new): An information medium for recording stream data of MPEG-TS in accordance with a hierarchical data structure, comprising:

a data area configured to store a stream object corresponding to the stream data, the stream object including one or more stream data units, and the one or more stream data units including one or more pairs of a time-stamp and a transport stream packet; and

a management area configured to store management information of the stream object, wherein,

said management information includes an area configured to store copy management information, and

at least one of the stream data units includes a header containing time-related information with respect to the transport stream packet.

Claim 33 (new): A method of recording stream data on an information medium including,

a data area configured to store a stream object corresponding to the stream data, the stream object including one or more stream data units, and the one or more stream data units including one or more pairs of a time-stamp and a transport stream packet, and

a management area configured to store management information of the stream object, wherein,

said management information includes an area configured to store copy management information, and

at least one of the stream data units includes a header containing time-related information with respect to the transport stream packet,

the method comprising:

recording the stream data in the data area; and

recording the management information in the management area.

Claim 34 (new): A method of reproducing stream data from an information medium including,

a data area storing a stream object corresponding to the stream data, the stream object including one or more stream data units, and the one or more stream data units including one or more pairs of a time-stamp and a transport stream packet, and

a management area storing management information of the stream object, wherein, said management information includes an area configured to store copy management information, and

at least one of the stream data units includes a header containing time-related information with respect to the transport stream packet,

the method comprising:

reproducing the management information from the management area; and

reproducing the stream data from the data area.

Claim 35 (new): An apparatus for recording stream data on an information medium including,

a data area configured to store a stream object corresponding to the stream data, the stream object including one or more stream data units, and the one or more stream data units including one or more pairs of a time-stamp and a transport stream packet, and

a management area configured to store management information of the stream object, wherein,

said management information includes an area configured to store copy management information, and

at least one of the stream data units includes a header containing time-related information with respect to the transport stream packet,

the apparatus comprising:

a first recorder block configured to record the stream data in the data area; and

a second recorder block configured to record the management information in the management area.

Claim 36 (new): An apparatus for reproducing stream data from an information medium including,

a data area storing a stream object corresponding to the stream data, the stream object including one or more stream data units, and the one or more stream data units including one or more pairs of a time-stamp and a transport stream packet, and

a management area storing management information of the stream object, wherein,

said management information includes an area configured to store copy management information, and

at least one of the stream data units includes a header containing time-related information with respect to the transport stream packet,

the apparatus comprising:

a first reproducer block configured to reproduce the management information from the management area; and

a second reproducer block configured to reproduce the stream data from the data area.

Claim 37 (new): The medium of claim 32, wherein the stream object includes copyright information.

Claim 38 (new): The method of claim 33, wherein the stream object includes copyright information.

Claim 39 (new): The method of claim 34, wherein the stream object includes copyright information.

Claim 40 (new): The apparatus of claim 35, wherein the stream object includes copyright information.

Claim 41 (new): The apparatus of claim 36, wherein the stream object includes copyright information.